



Global Strategic Alliance



BALLAST WATER SAMPLING

ABOUT GSA-KSA

Global GSA, headquartered in Dammam in Kingdom of Saudi Arabia, is a company specialized in maritime, ship and offshore, cargo and facilities inspection and assessment services. GSA-KSA bolsters highly trained professional with established practical experience in the maritime, ship and offshore, cargo and facilities inspection and assessment business. GSA has established affiliations with world class companies both in Saudi Arabia and throughout the Middle East and North Africa (MENA) region.





GSA-KSA VISION

To be the first choice of our customers whom seek high quality and cost effective maritime, ship and offshore, cargo and facilities inspection and assessment services in Saudi Arabia. GSA-KSA'S seeks to be an active service provider and promote Saudi Arabia's Vision 2030. Be well positioned to be the prime ship and cargo assessor and inspector in the MENA region, and be well positioned to serve a rapid growth in Saudi Arabia of this vital service.

GSA-KSA GOALS

The Kingdom of Saudi Arabia is one of the biggest economies in the MENA region located on the most important area of global sea lanes, and hosts many international ports and industrial and commercial maritime facilities.

Furthermore, the Kingdom of Saudi Arabia has adopted an ambitious Vision 2030 which aims at encouraging growth of private sector to provide the needed services and support government agencies towards adopting and implementing international conventions and regulations in the maritime sector. GSA's primary goal includes expansion of services to address demands in the maritime and offshore sector of Saudi Arabia.

GSA-KSA PROMISE

GSA provides its customers with cost effective and efficient services with aim of establishing long term quality service relations. GSA strives to ensure that ship owners, agents, and cargo customers recognize our company as being a first point of contact to provide fast, reliable, and cost effective service.

GSA-KSA SERVICES

Our areas of expertise and services include the following:

- >Ship cargo inspection
- >Maritime environmental service
- >Maritime studies and market analysis

One of our prime service includes ship ballast water indicative testing. Our team of trained technicians and portable sampling equipment aims to conduct onboard sampling and provision of sample reports to our customers to share with port authorities. An overview of how our service is provided is shown in illustration below.

BALLAST WATER SAMPLING



Issuance of report 3 copies; ship master, Agent, and Service Provider

BALLAST WATER SAMPLING

NEED (Extracted from IMO website):

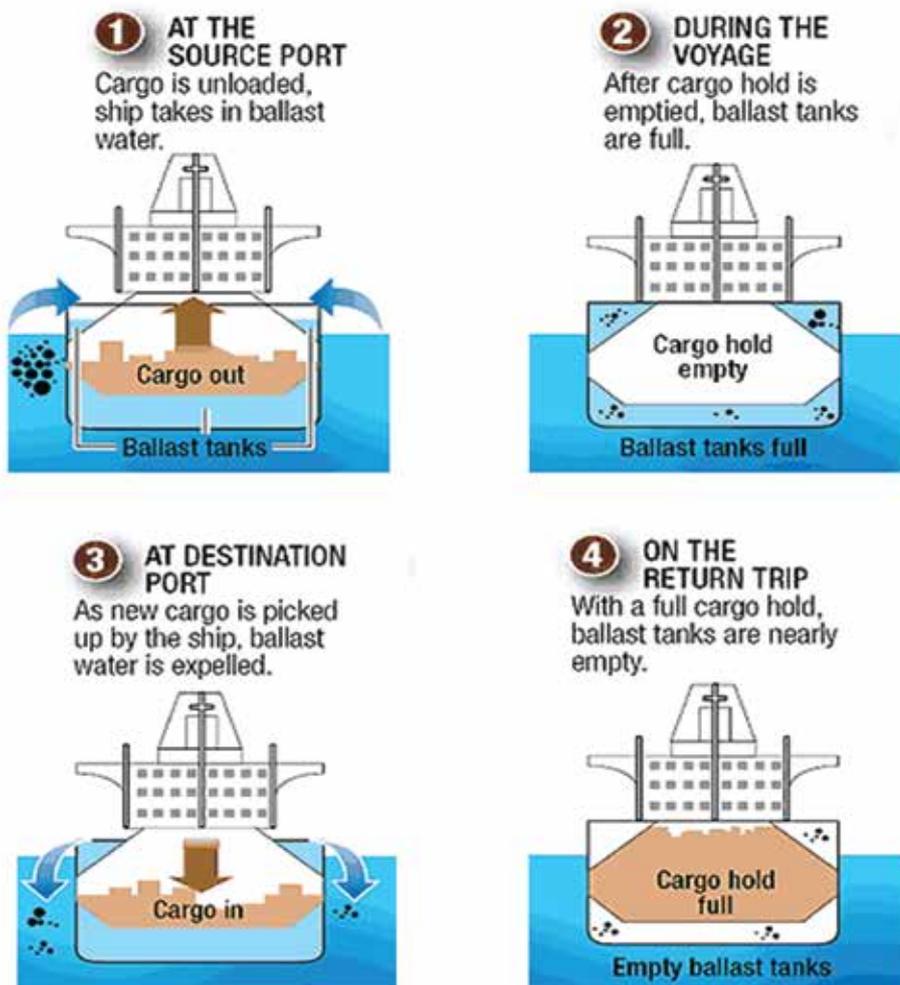
While ballast water is essential for safe and efficient modern shipping operations, it may pose serious ecological, economic and health problems due to the multitude of marine species carried in ships' ballast water. These include bacteria, microbes, small invertebrates, eggs, cysts and larvae of various species. The transferred species may survive to establish a reproductive population in the host environment, becoming invasive, out-competing native species and multiplying into pest proportions.

HOW INVASIVE SPECIES ARE IMPORTED INTO THE KINGDOM

IMO has been at the front of the international effort by taking the lead in addressing the transfer of invasive aquatic species (IAS) through shipping.

As a result, the International Convention for the Control and Management of Ships' Ballast Water and Sediments (BWM Convention) was adopted by consensus at a Diplomatic Conference held at IMO Headquarters in London on 13 February 2004

"Saudi Arabia ratified IMO Ballast Water Convention on 11th April 2017 which makes the convention enforced for Saudi Arabian ports and terminals"



Source: IMO



BALLAST WATER SAMPLING

As part of the Ballast Water Management requirements, there is a requirement for accurate instruments for onboard monitoring of the IMO D2 Guidelines that address:

Viability

Cell Size

Number of Cells per unit volume

Source: IMO

Size Class	D2 Standard	Test Method
>50 μm	<10 viable organisms per m^3	Laboratory
10-50 μm	<10 viable organisms per mL	Lab & On-board
<i>Vibrio cholerea</i>	<1 colony forming unit (cfu) per 100 mL	Lab & On-board
<i>E.coli</i>	<250 colony forming unit (cfu) per 100 mL	Lab & On-board
<i>Intestinal Enterococci</i>	<100 colony forming unit (cfu) per 100 mL	Lab & On-board

We at GSA are capable of both doing the onboard test on behalf of the ship owner as also sell approved test equipment to be permanently onboard.

BALLAST WATER SAMPLING PROCESS

At GSA we have trained technicians with calibrated equipment who will be available 24/7 to support any request for onboard sampling.

Sampling will be collected from 2 or 3 randomly selected tanks, as also at the outlet of the ballast water treatment plant.

The indicative analysis report will be done in triplicate. One copy each for the Master and Agent. One copy will be retained by the Technician.





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We at GSA strive to make it easier and simpler for the ship owners to comply with regulations and help save our environment in the process.



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